

Form 3

**COPY
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JUN 11 2001

STATE OF ILLINOIS

Illinois Commerce Commission
RAIL SAFETY SECTION

ILLINOIS COMMERCE COMMISSION

Petition for permission to make a major change in crossing
Protection, or to install new protection under 92 Illinois
Administrative Code 1535.400(d)

Date: June 7, 2001

X-11655
T01-0038

To the Illinois Commerce Commission:

The petitioner, Union Pacific Railroad Company shows

- (1) That it is a railroad company operating a line of railroad in the State of Illinois.
- (2) That petitioner proposes and hereby makes application for authority to make a major change in crossing protection, or to install new protection, under 92 Illinois Administrative Code 1535.400(d) adopted by this Commission.
- (3) That the location of the crossing, the nature of protection now established and proposed to be established, and other pertinent facts in connection therewith, are set forth in the statement attached to and forming part of this petition.
- (4) That petitioner's reasons and purpose, with reference to its said proposal are to install 4-quad Flashing Light Signals, Gates, and Constant Warning Time Circuitry.
- (5) That the facts set forth in this petition and in the statement and plans or plats attached thereto, are, all of them, true and correct to the best of petitioner's knowledge and belief.

WHEREFORE, the petitioner prays that the Commission will, if deemed desirable by the Commission, set the aforesaid matter for hearing, and that the Commission enter an order or adopt a resolution consenting to and granting authority for the making of the said proposed changes in or additions to crossing protection.

UNION PACIFIC RAILROAD COMPANY

By


Andrew Murphy

UPRR Industry & Public Projects

DOCKETED

Statement, attached to and part of an application for permission to make a major change in crossing protection or to install new protection, under 92 Ill. Adm. Code 1535.400(d).

1. Name of railroad company: **Union Pacific, Railroad Company**
2. Crossing Number: **290 531U**
3. Village or City: **Gardner**
4. Name of Street or Highway: **Stonewall Road**
5. Public Agency Maintaining Highway: **Grundy County**
6. Protection now established: **Crossbucks**
7. Protection desired: **4-quad gates & constant warning circuits**
8. Number of main tracks: **1** Other tracks:
9. Number of passenger train movements: 6 am to 6 pm: **3**
6 pm to 6 am: **3**
10. Number of freight train movements: 6 am to 6 pm: **1**
6 pm to 6 am: **0**
11. Approximate Number of switch moves: 6 am to 6 pm: **0**
6 pm to 6 am: **0**
12. Maximum speed of trains at crossing on each track in each direction: **79 MPH**
13. Passenger platforms served by tracks within the limits of track circuits: **NONE**
14. Where automatic signals or gates are proposed, approximate number of train or engine movements daily which would cause false indications or operations: **NONE**

15. In addition to the information listed herein before in Form 3, attach a track plan or the plat of the proposed crossing. This plan should show:

- (a) Width of surface or highway.
- (b) Highway intersections (including private driveways to be so indicated) and location of established highway signs or signals within 100 feet of crossing.
- (c) Location of tracks, switches, and other railroad facilities such as block signals, etc. within limits of track circuits, present and/or proposed.
- (d) Where automatic protection is proposed, show proposed location of signals (side lights, cantilevers, etc., if any).
- (e) Show the length of each operating track section within the control limits of the crossing protection and its function.

ADDITIONAL INFORMATION

VERIFICATION

I, **Andrew T. Murphy**, first being duly sworn upon oath depose and say that I am **Engineering Inspector-Industry & Public Projects of Union Pacific Railroad Company**, a Delaware Corporation; that I have read the above and foregoing petition by me subscribed and know the contents thereof; that said comments are true in substance and in fact, except as to those matters stated upon information and belief, and as to those, I believe same to be true.

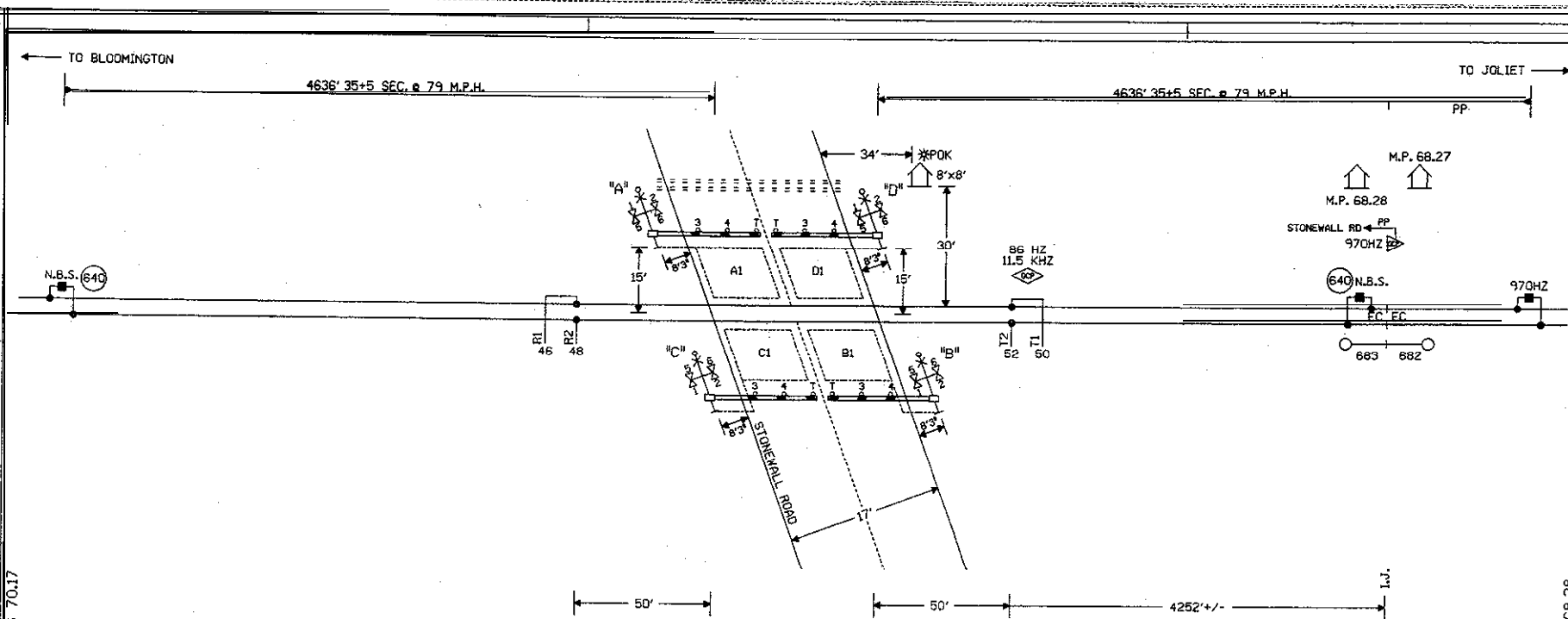
Union Pacific Railroad Company

By Andrew Murphy

Andrew T. Murphy
UPRR Industry & Public Projects

CONNECTS TO DRAWING 7017

CONNECTS TO DRAWING 6828



NOTES:

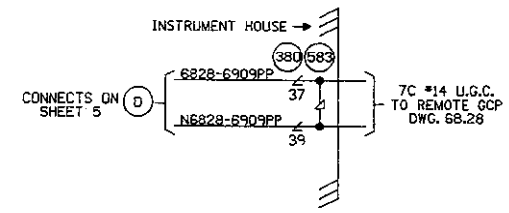
- ⊗ = TWISTED WIRES
INSULATED 1 TWIST PER FT.
ALL TRACK WIRES 2C. #6
- TRANSMITTER AND RECEIVER LEADS
TO BE SEPARATED BY AT LEAST 12" IN TRENCH,
LENGTHS SHOULD NOT EXCEED MANUFACTURERS
RECOMMENDATION.
- TOP OF FOUNDATION TO BE AT SAME ELEVATION
AS THE SURFACE OF THE TRAVELED WAY & NO
MORE THAN 4" ABOVE THE SURFACE OF THE GROUND.
- ALL BUNGALOW WIRING TO BE #16 AWG FLEX
UNLESS OTHERWISE SPECIFIED EXCEPT ALL GROUND
WIRE TO BE #6 AWG FLEX OR LARGER.
- ALL WIRING IN GATE MECHANISM TO BE #10 AWG FLEX*.
REFER TO UP STANDARD DWG FOR BUNGALOW GROUNDING.
- DO NOT USE 7 CELLS OF B12 BATTERY UNLESS
REQUIRED TO MAINTAIN MINIMUM LAMP VOLTAGE.
- ALL LIGHTS TO BE 12" ROUNDELS.
- ===== 4" X 60' CONDUIT
- LIGHTS: LED LIGHTS
- GATE A, C: 18"
- GATE B, D: 18"
- CRTU MICROBURST

EXIT GATE MANAGEMENT SYSTEM
(EGMS) LOOP LOCATION:

- 1.) 12" FROM CONCRETE CROSSING PANEL, MAY VARY
FROM 6" TO 12" DEPENDING ON PAVEMENT QUALITY.
 - 2.) 2" FROM CROSSING CENTERLINE.
 - 3.) 3.5' FROM GATE ARM.
 - 4.) 2" FROM THE EDGE OF THE TRAVELED WAY, MAY
BE INCREASED UP TO A MAXIMUM OF 5' WHERE
AN IMPROVED SHOULDER OR OTHER EXISTS.
 - 5.) MAXIMUM LOOP WIDTH NOT TO EXCEED 12' AND
MINIMUM WIDTH NOT TO BE LESS THAN 3'.
- = EGMS LOOP

CONSTRUCTION NOTES:

- 1.) THE REMOTE GCP BUNGALOW (M.P. 68.28)
WILL BE INSTALLED AS A PART OF THIS
PROJECT.

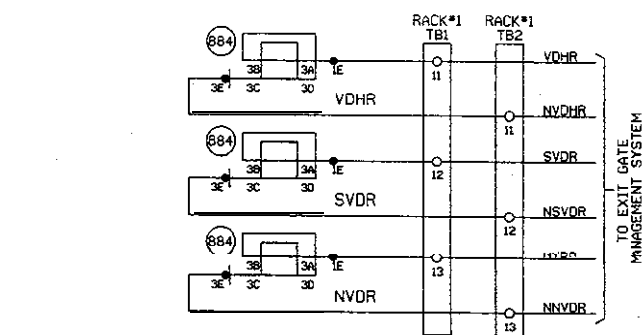



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SHEET**

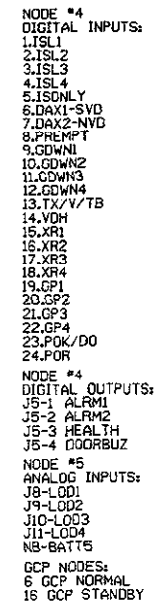
DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 68.28
JOLIET SUBDIVISION
J.O.T. #292 531U
PROJ. #

S ← ○ → N

5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM ILLINOIS TO SPRINGFIELD A.F.E. 004438L J.J.F. WITT/JNM		MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. DA LAST LEVEL MOD. THIS TYP. CZ LAST LEVEL BY DESIGNER. DD CHANGED FROM TYP. Y/N Y		UNION PACIFIC SIGNAL DESIGN DES. WITT, IND. DIG. WITT, IND. CHK. J.J.F. A.F.E. 004438L ID: CSL609JX		UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENGR OMAHA NEBR.		DATE 5-1-01 SHEET 1 DWG 69.09 RTE-CSL
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				5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD. AFE 00443BL JJF WITT/JNM	MODIFICATION LEVEL	DA	 UNION PACIFIC SIGNAL DESIGN	DES: WITT/JND DIG: WITT/JND CHK: J.J.F. A.F.E. 00443BL	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS	DATE 5-1-01 SHEET 2 DWG 69.09 RTE-CSL
					Q.A. LAST LEVEL CHK'D.	DA				
					LAST LEVEL MOD. THIS TYP.	CZ				
					LAST LEVEL BY DESIGNER.	DD				
					CHANGED FROM TYP.2 Y/N	Y		10: CSL6909.2X		
								OFFICE OF CHIEF ENGR	OMAHA NEBR.	



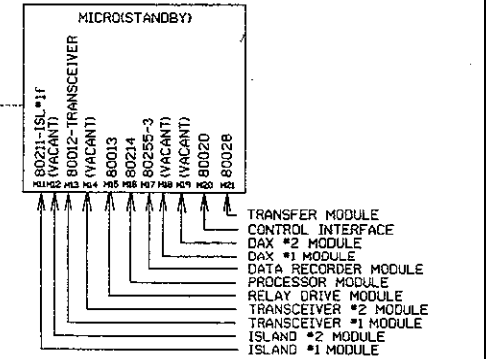
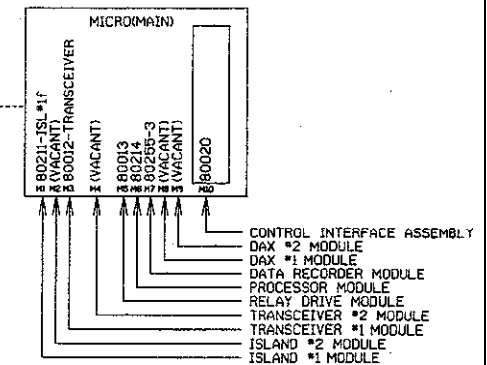
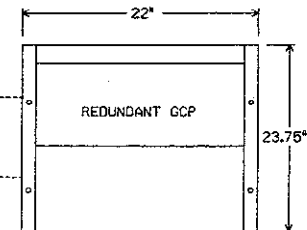
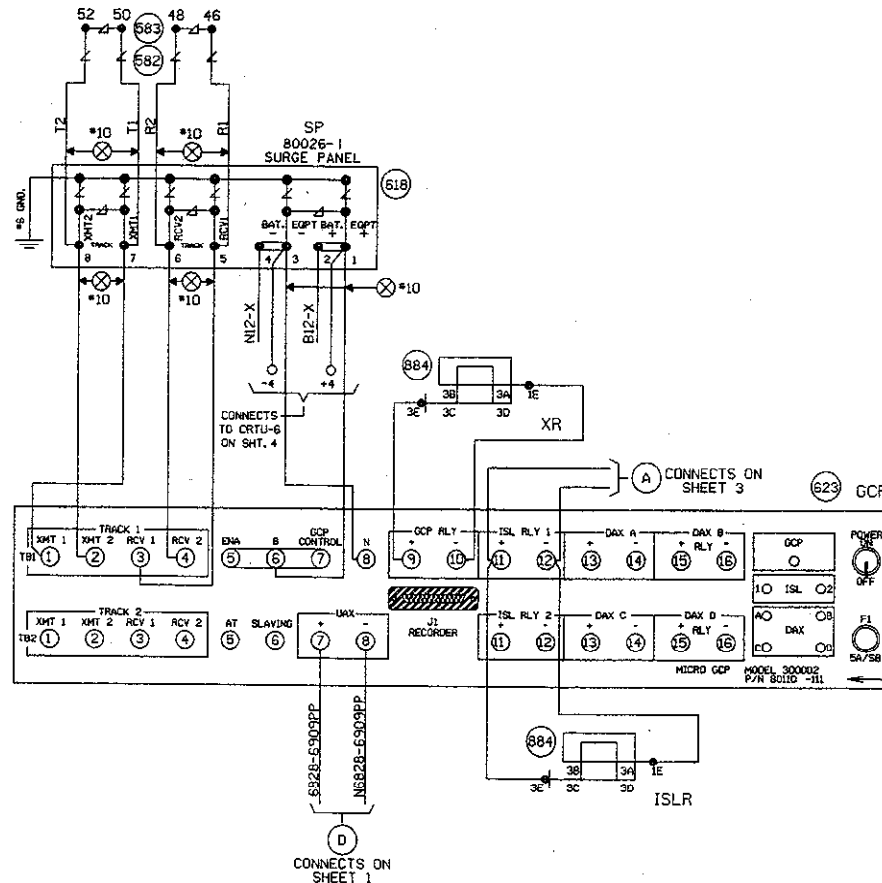
SER NOTES:
 1. JUMPER ALL UNUSED DIGITAL "A" INPUTS
 TO THE B TERMINAL
 2. JUMPER ALL UNUSED DIGITAL "B" INPUTS
 TO THE N TERMINAL.
 3. DO NOT JUMPER INPUTS WITH DIFFERENT
 VOLTAGE REFERENCES TOGETHER.
 4. WHEN L.E.D. #15 IS LIT THE
 SER IS IN TEST MODE.

⊗ = TWISTED WIRES.

**NEW
SHEET**

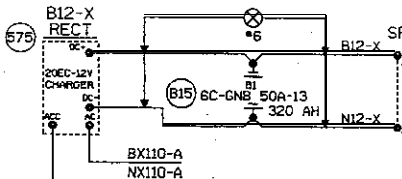
DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.09
JOLIET SUBDIVISION
D.O.T.*290 531U
PROJ.*

NOTE:
THIS DRAWING WAS DESIGNED FOR A SPECIFIC APPLICATION. IF A MODIFICATION OR REDESIGN OF THIS DRAWING CAUSES ANY MODULES TO CHANGE, THE UNIT'S PART NUMBER MUST BE CHANGED TO CORRESPOND ACCORDINGLY.



NOTE:
EACH TRANSMITTER TO RAIL WIRE FROM TB1-1 AND TB1-2 MUST NOT EXCEED THE MAXIMUM LENGTH SPECIFIED IN THE TABLE SHOWN BELOW. THE RECEIVER WIRE LENGTH IS NOT CRITICAL. DOES NOT APPLY TO 8 TRACK WIRE APPLICATION.

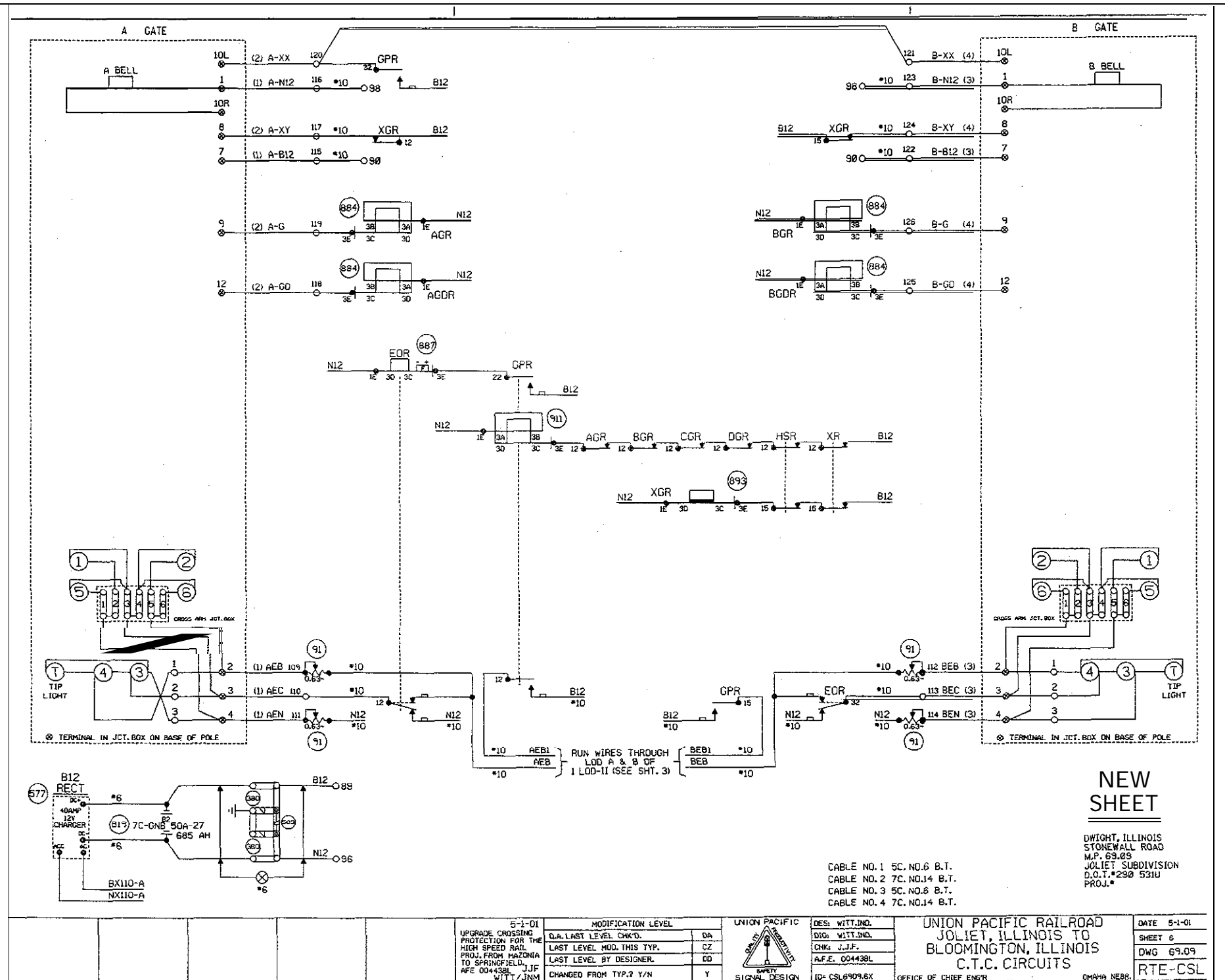
WIRE FREQUENCY (HZ)	MAXIMUM TRANSMIT WIRE LENGTH (FEET)
86	100
114	125
156	150
211	200
285-970	250



NEW SHEET

DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.03
JOLIET SUBDIVISION
D.O.T. #290 531U
PROJ. #

5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD, ILL. J.J.F. AFE 004438L WITT/JNM		MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. DA LAST LEVEL MOD. THIS TYP. C2 LAST LEVEL BY DESIGNER. DD CHANGED FROM TYP. Y/N Y		UNION PACIFIC SIGNAL DESIGN		DES. WITT/JNM CHK. J.J.F. A.F.E. 004438L TO: CSL6909.BY		UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENG'R		DATE 5-1-01 SHEET 5 DWG 69.09 RTE-CSL	
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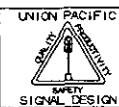


NEW
SHEET

DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.05
JOLIET SUBDIVISION
D.O.T. #298 531U
PROJ. #

CABLE NO. 1 5C. NO. 6 B.T.
CABLE NO. 2 7C. NO. 14 B.T.
CABLE NO. 3 5C. NO. 6 B.T.
CABLE NO. 4 7C. NO. 14 B.T.

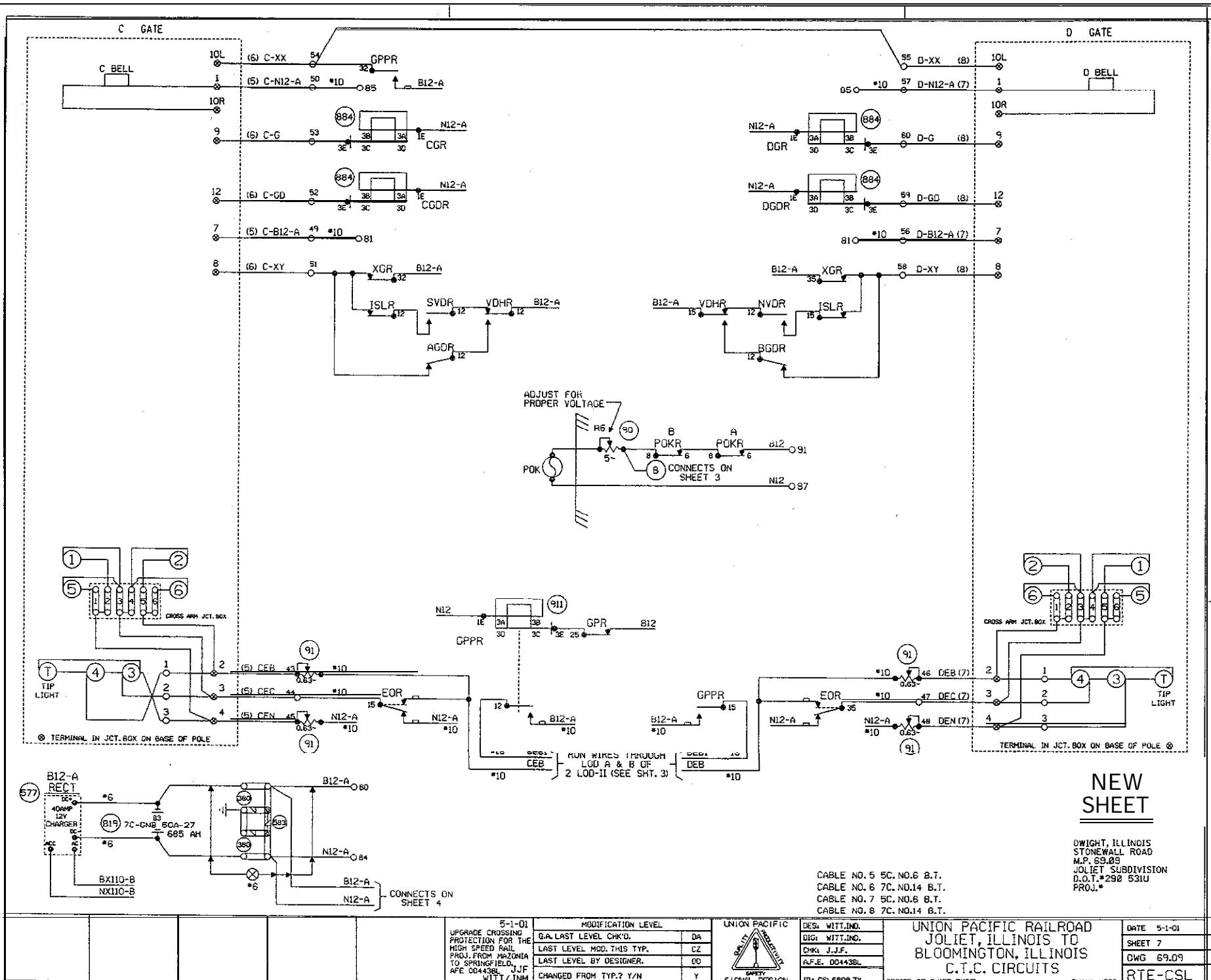
MODIFICATION LEVEL				
5-1-01	DA			
UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD, ILL.	CZ			
LAST LEVEL MOD. THIS TYP.	DD			
LAST LEVEL BY DESIGNER.	Y			
CHANGED FROM TYP. 2 Y/N				



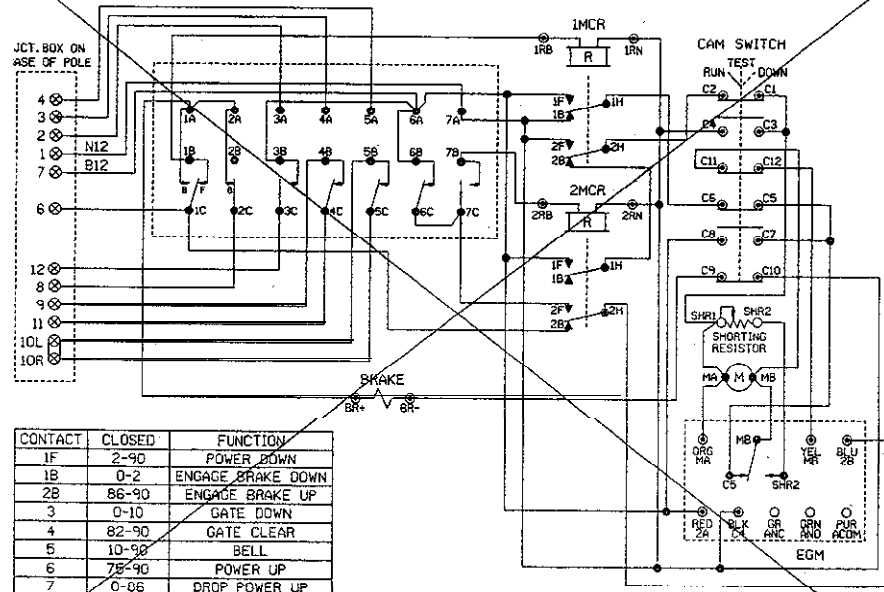
DES: WITT, INC.
DWG: WITT, INC.
CHK: J.J.F.
A.F.E. 004438L

UNION PACIFIC RAILROAD
JOLIET, ILLINOIS TO
BLOOMINGTON, ILLINOIS
C.T.C. CIRCUITS

DATE 5-1-01
SHEET 6
DWG 69.09
RTE-CSL



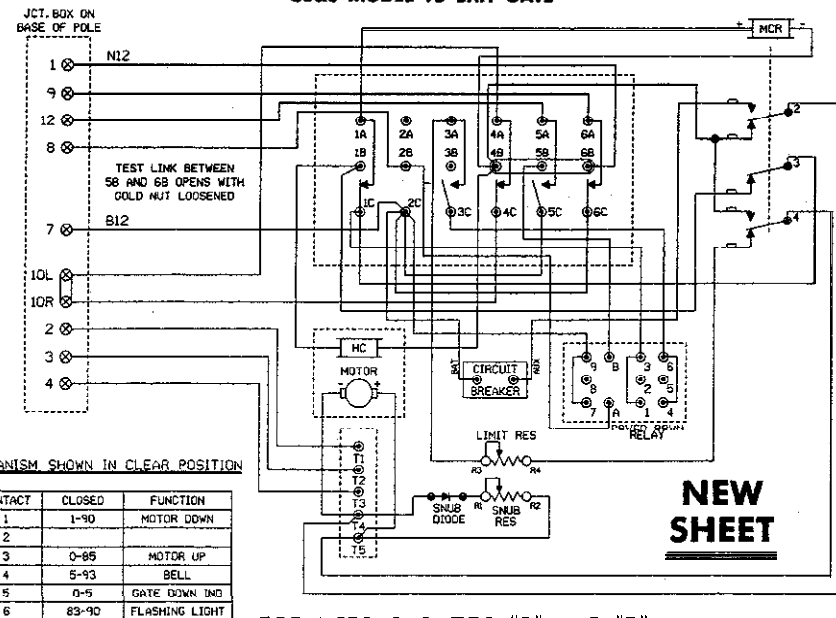
WCH 3597 EXIT GATE



MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "C" AND "D"

US&S MODEL 95 EXIT GATE

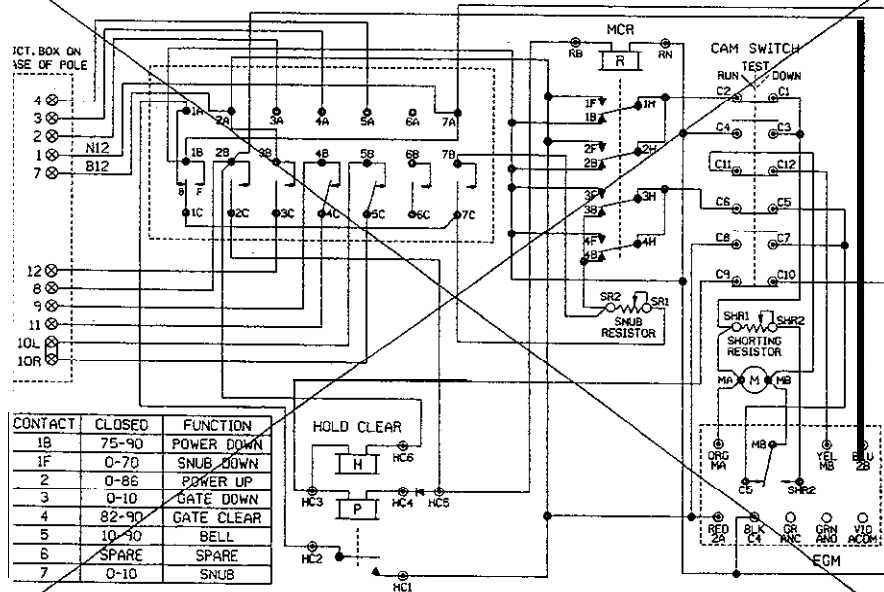


MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "C" AND "D"

NEW SHEET

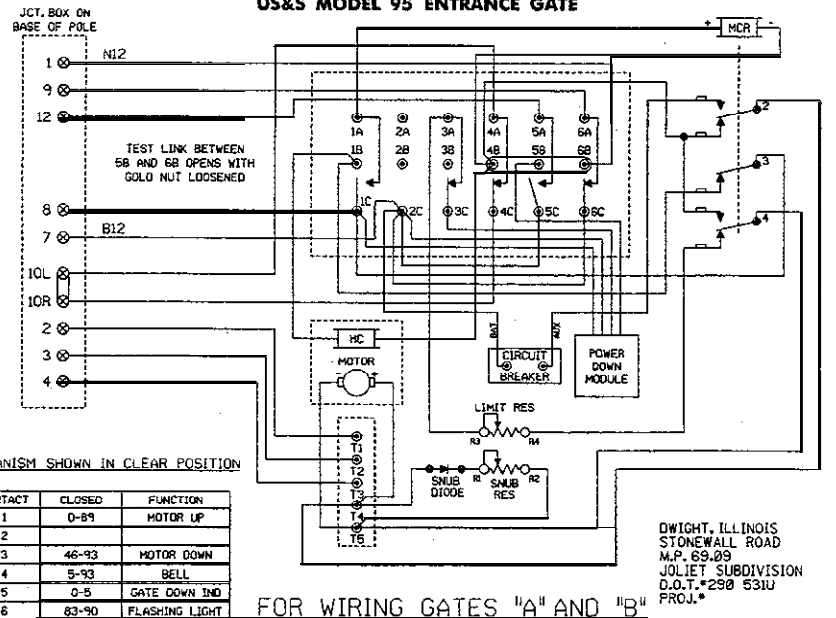
WCH 3597 ENTRANCE GATE



MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "A" AND "B"

US&S MODEL 95 ENTRANCE GATE



MECHANISM SHOWN IN CLEAR POSITION

FOR WIRING GATES "A" AND "B"

DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.09
JOLIET SUBDIVISION
D.O.T.*290 531U
PROJ.*

5-1-01
UPGRADE CROSSING
PROTECTION FOR THE
HIGH SPEED RAIL
PROJ. FROM MAZONIA
TO SPRINGFIELD, ILL.
A.F.E. 004438L
WITT/JNM

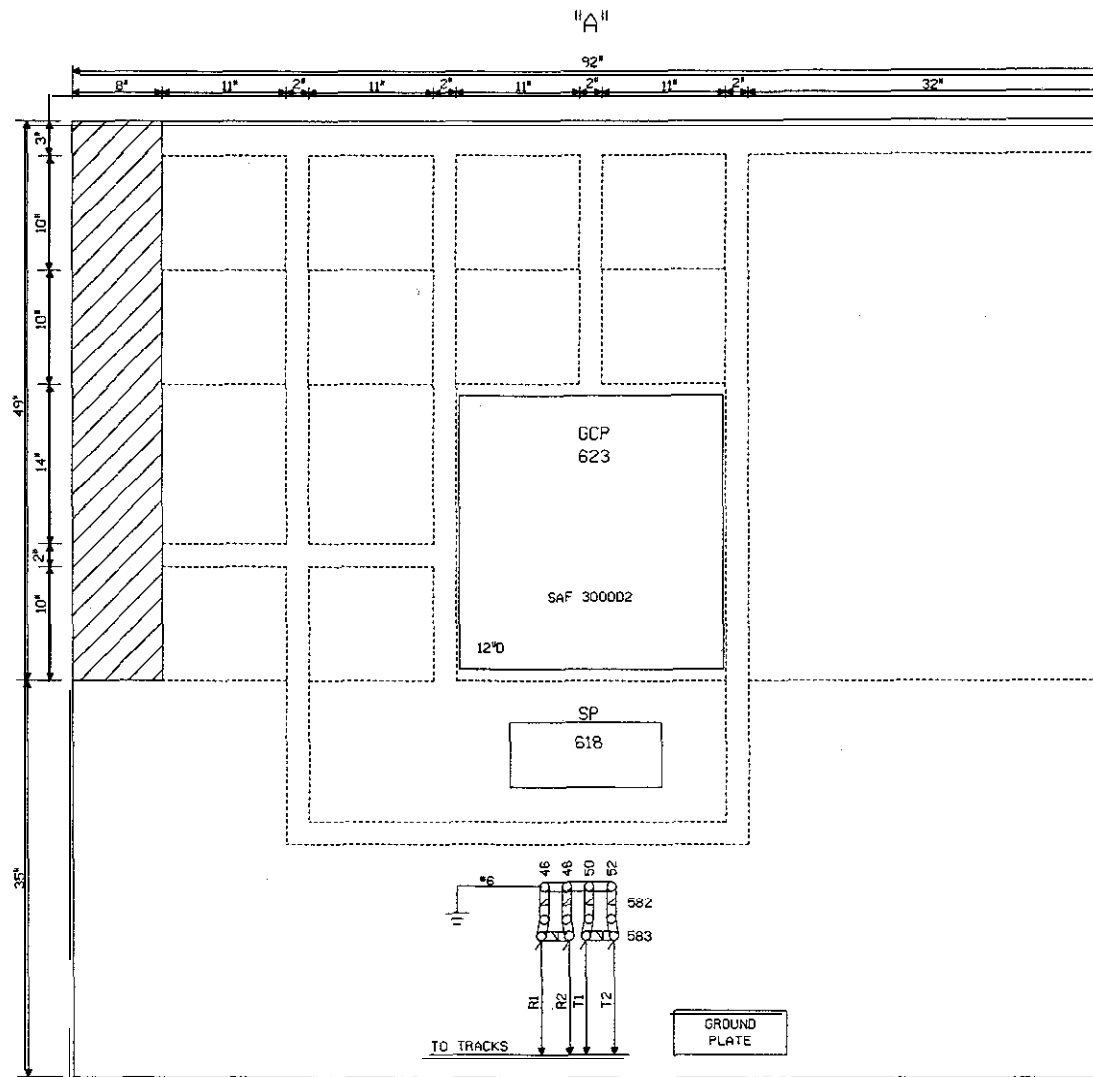
MODIFICATION LEVEL
Q.A. LAST LEVEL CHK'D. DA
LAST LEVEL MOD. THIS TYP. C2
LAST LEVEL BY DESIGNER. C2
CHANGED FROM TYP. 2 1/4 N Y

UNION PACIFIC
SAFETY
SIGNAL DESIGN

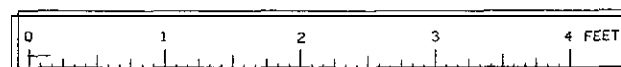
DES: WITT, IND.
DIG: WITT, IND.
CHK: J.J.F.
A.F.E. 004438L
ID: CSL6909.BX

UNION PACIFIC RAILROAD
JOLIET, ILLINOIS TO
BLOOMINGTON, ILLINOIS
C.T.C. CIRCUITS

DATE 5-1-01
SHEET 8
DWG 69.09
RTE-CSL



TWO CABLE ENTRANCES ON THIS WALL



SCALE: 1.5 INCHES = 1 FOOT

**NEW
SHEET**

DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.09
JOLIET SUBDIVISION
D.O.T. #290 531U
PROJ. #

5-1-01
UPGRADE CROSSING
PROTECTION FOR THE
HIGH SPEED RAIL
PROJ. FROM WAZONIA
TO SPRINGFIELD.
JJC
AFC 004438L

MODIFICATION LEVEL
Q.A. LAST LEVEL CHK'D.
LAST LEVEL MOD. THIS TYP.
LAST LEVEL BY DESIGNER
CHANGED FROM TYP.? Y/N

DA
CZ
DD
Y

UNION PACIFIC
SIGNAL DESIGN

DESK: WITT/IND.
DIG: WITT/IND.
CHK: J.J.F.
AFC 004438L
ID: CSL6909.9X

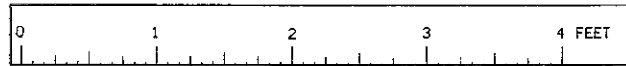
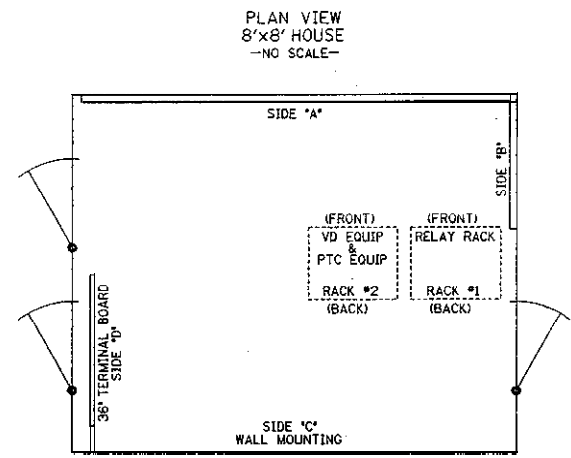
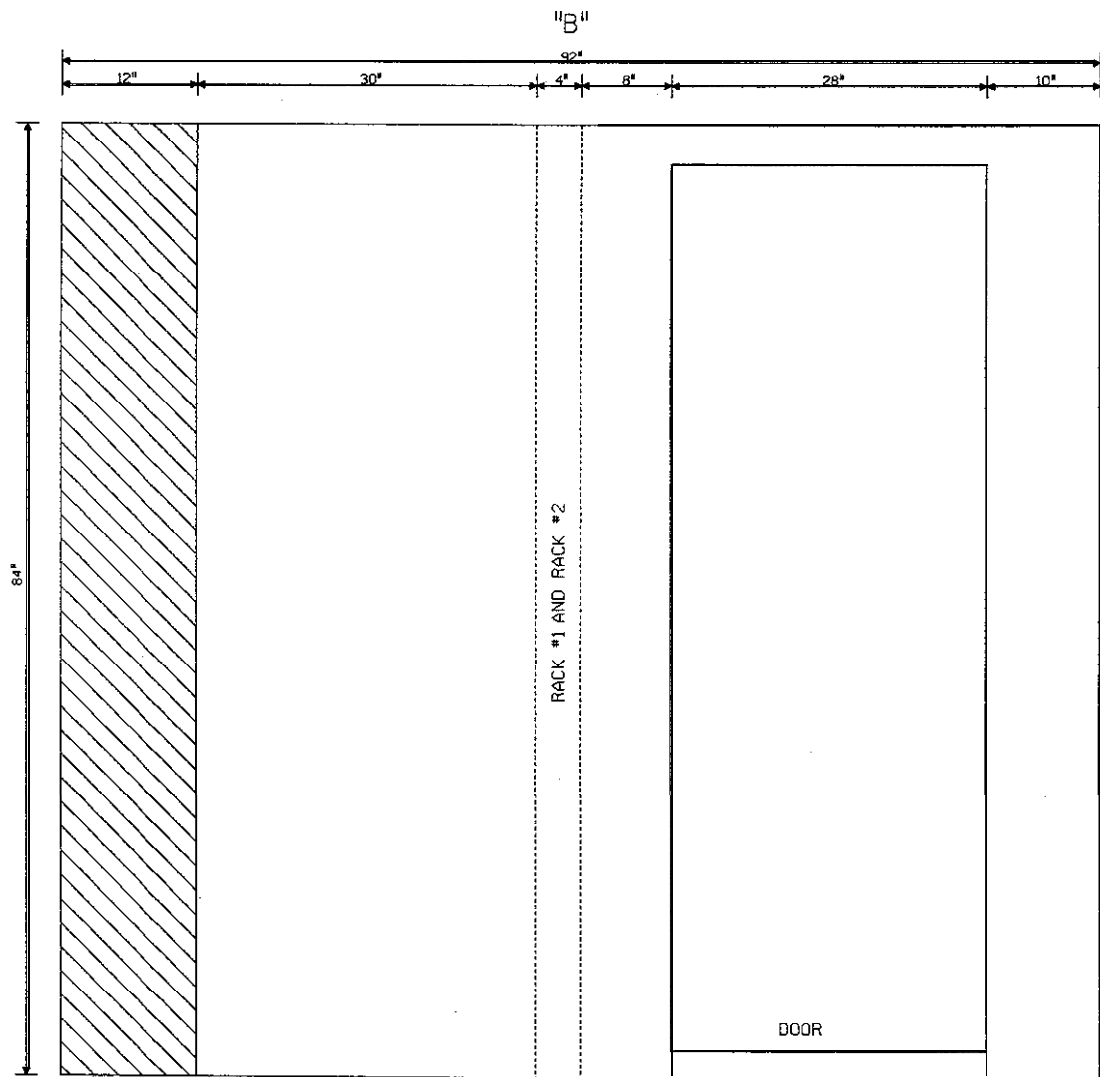
UNION PACIFIC RAILROAD
JOLIET, ILLINOIS TO
BLOOMINGTON, ILLINOIS
S.T.C. CIRCUITS

OFFICE OF CHIEF ENGINEER

OMAHA, NEBR.

DATE 5-1-01
SHEET 9
DWG 69.09
RTE-CSL

(REV. 7-9-00) (HOUSE.TYP)



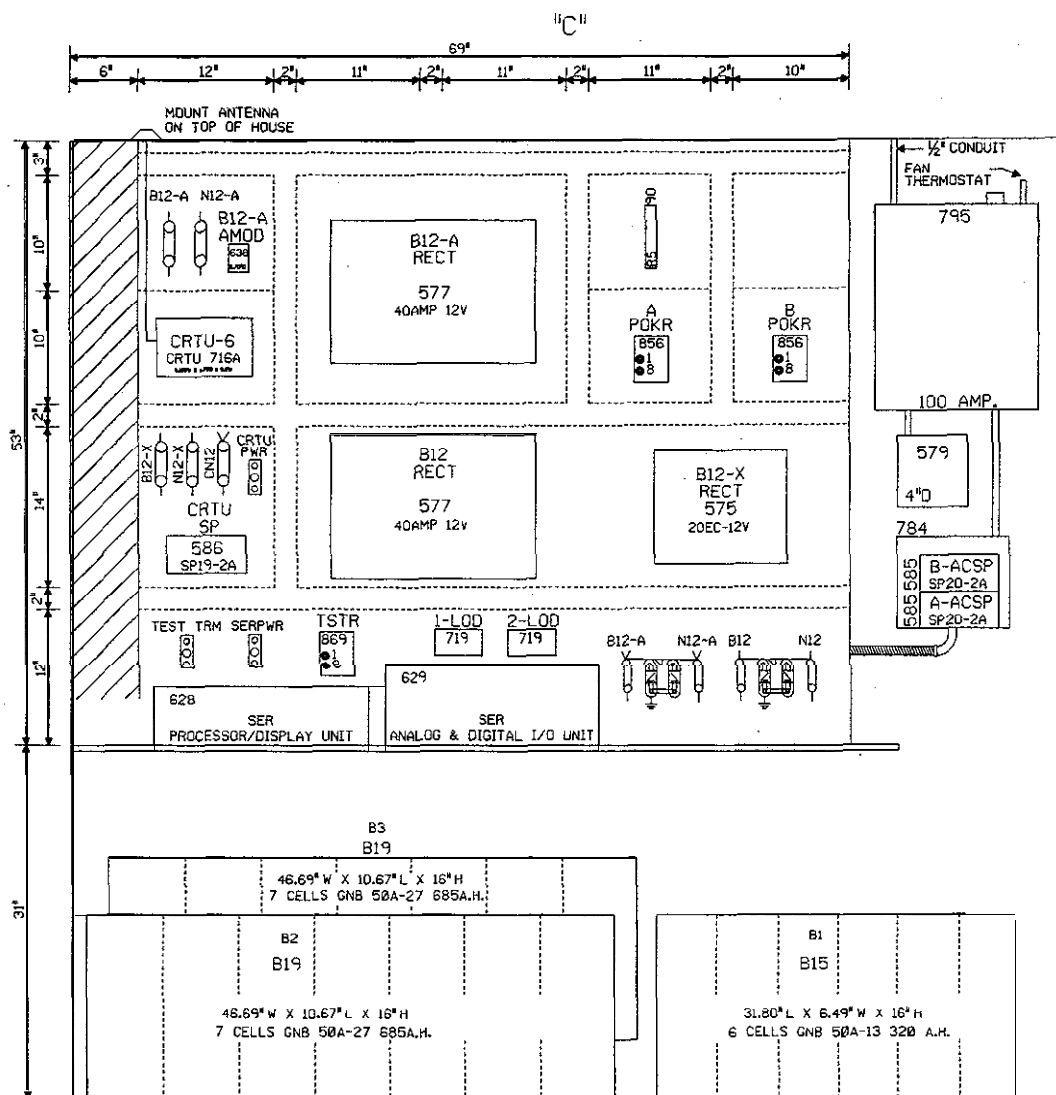
SCALE: 1.5 INCHES = 1 FOOT

**NEW
SHEET**

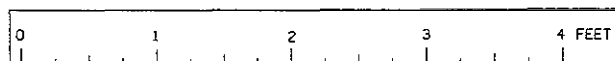
DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.09
JOLIET SUBDIVISION
D.O.T. #290 531U
PROJ. #

5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD, RFE 004438L J.F. WITT/JNM				MODIFICATION LEVEL		UNION PACIFIC		DES. WITT/JND.		UNION PACIFIC RAILROAD		DATE 5-1-01	
				Q.A. LAST LEVEL CHK'D.		DA		DIG. WITT/JND.		JOLIET, ILLINOIS TO		SHEET 10	
				LAST LEVEL MOD. THIS TYP.		CZ		CHK. J.F.F.		BLOOMINGTON, ILLINOIS		DWG 69.09	
				LAST LEVEL BY DESIGNER.		DD		A.F.E. 004438L		C.T.C. CIRCUITS		RTE-CSL	
				CHANGED FROM TYP.? Y/N		Y		ID= CSL6909.10X		OFFICE OF CHIEF ENGR		OMAHA NEBR.	

(REV. 7-9-00) (HOUSE.TYP)




**NEW
SHEET**

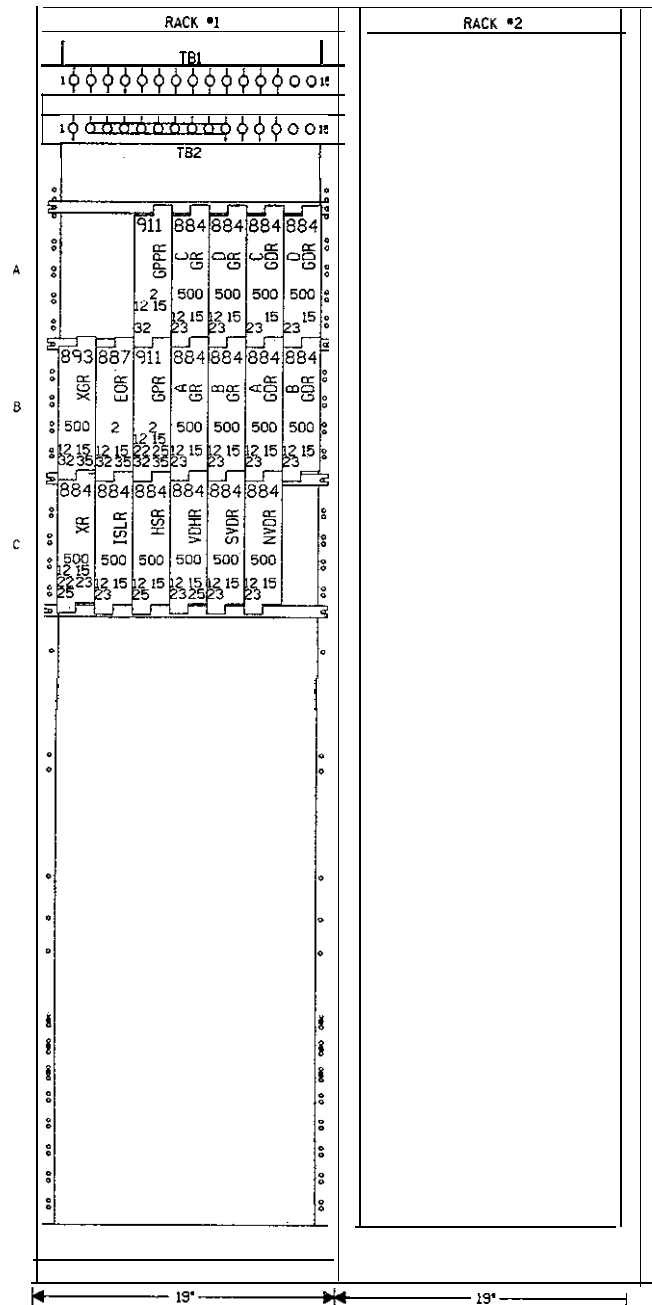
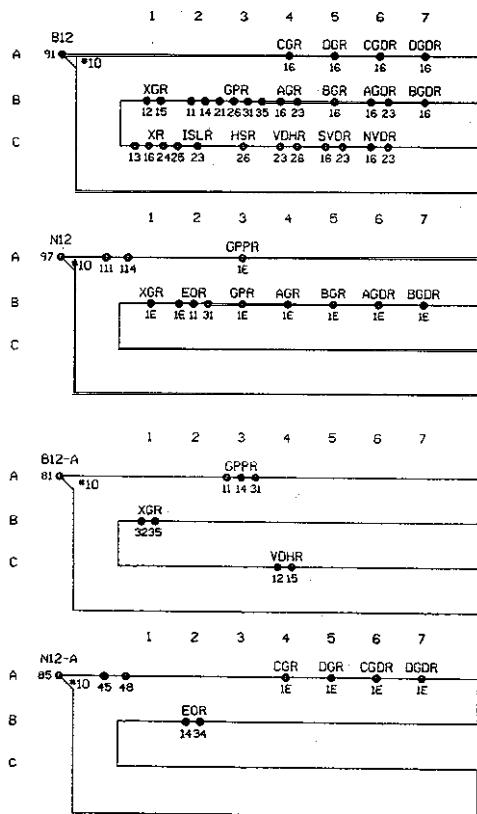


SCALE: 1.5 INCHES = 1 FOOT

DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.09
JOLIET SUBDIVISION
D.O.T. #290 531U
PROJ. #

5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD. APE 00443BL - J.J.F. WITT/JNM	MODIFICATION LEVEL			DES. WITT/LND. DIG. WITT/LND. CHK. J.J.F. A.P.E. 00443BL ID# CSL6909JIX	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENGR.	DATE 5-1-01 SHEET 11 DWG 69.09 RTE-CSL
	Q.A. LAST LEVEL CHK'D.	DA				
	LAST LEVEL MOD. THIS TYP.	CZ				
	LAST LEVEL BY DESIGNER.	DD				
	CHANGED FROM TYP. Y/N	Y				
					OMAHA NEBR.	

(REV. 7-9-00) (HOUSE.TYP)

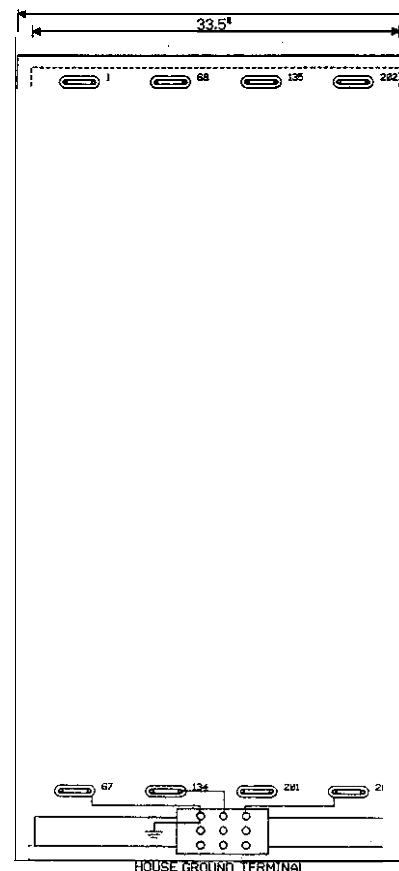
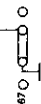
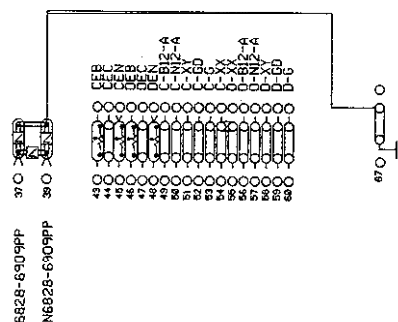
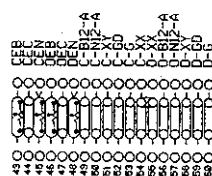
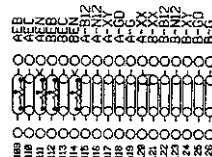
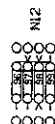


**NEW
SHEET**

DWIGHT, ILLINOIS
STONEWALL ROAD
M.P. 69.09
JOLIET SUBDIVISION
D.O.T. #290 531U
PROJ. #

5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD. AFE 004438L J.J.F. WITT/JNM	MODIFICATION LEVEL		UNION PACIFIC		DES: WITT/JND.	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENGR OMAHA NEBR.	DATE 5-1-01
	G.A. LAST LEVEL CHK'D.	DA	SAFETY SIGNAL DESIGN		DIG: WITT/JND.		SHEET 12
	LAST LEVEL MOD. THIS TYP.	CZ			CHK: J.J.F.		DWG 69.09
	LAST LEVEL BY DESIGNER.	DD			A.F.E. 004438L		RTE-CSL
	CHANGED FROM TYP. ? Y/N	Y			ID: CSL6909J2X		

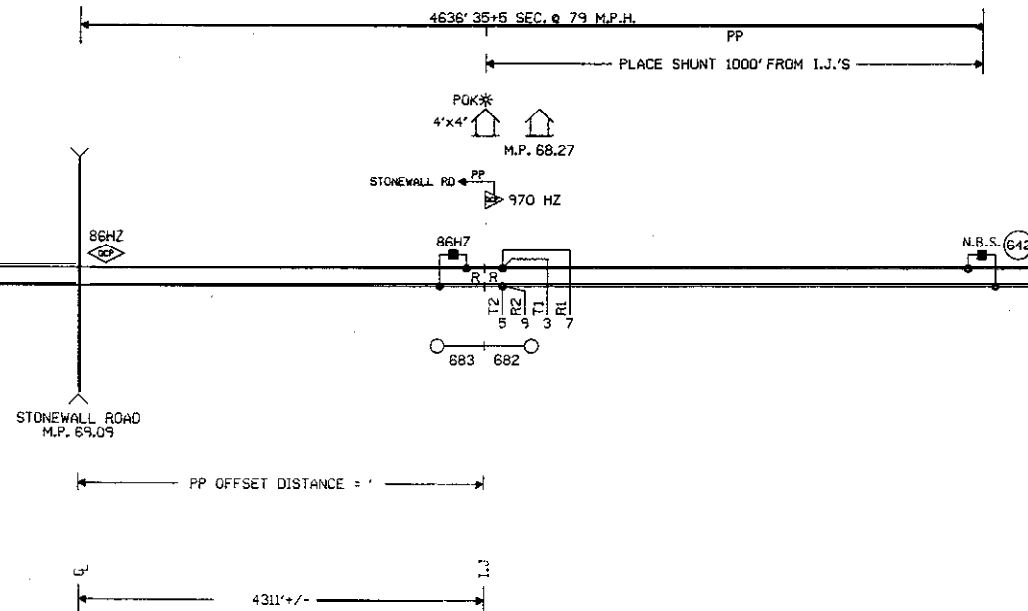
(REV. 7-9-00) (HOUSE TYP)



(REV. 7-9-00) (HOUSE.TYP)

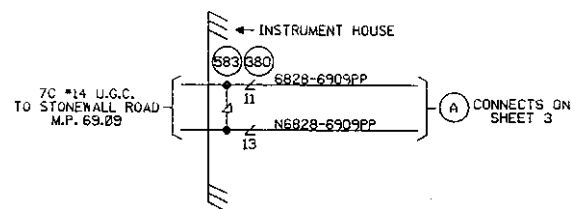
← TO BLOOMINGTON

TO JOLIET →



NOTES:

- ⊗ = TWISTED WIRES
ALL TRACK WIRES 2C. #6
INSULATED 1 TWIST PER FT.
TRANSMITTER AND RECEIVER LEADS
TO BE SEPARATED BY AT LEAST 12" IN TRENCH.
LENGTHS SHOULD NOT EXCEED MANUFACTURERS
RECOMMENDATION.
- ALL BUNGALOW WIRING TO BE #16 AWG FLEX
UNLESS OTHERWISE SPECIFIED EXCEPT ALL GROUND
WIRE TO BE #6 AWG FLEX OR LARGER.
REFER TO UP STANDARD DWG. FOR BUNGALOW
GROUNDING.



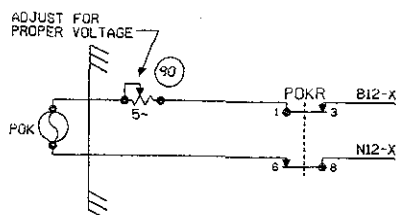
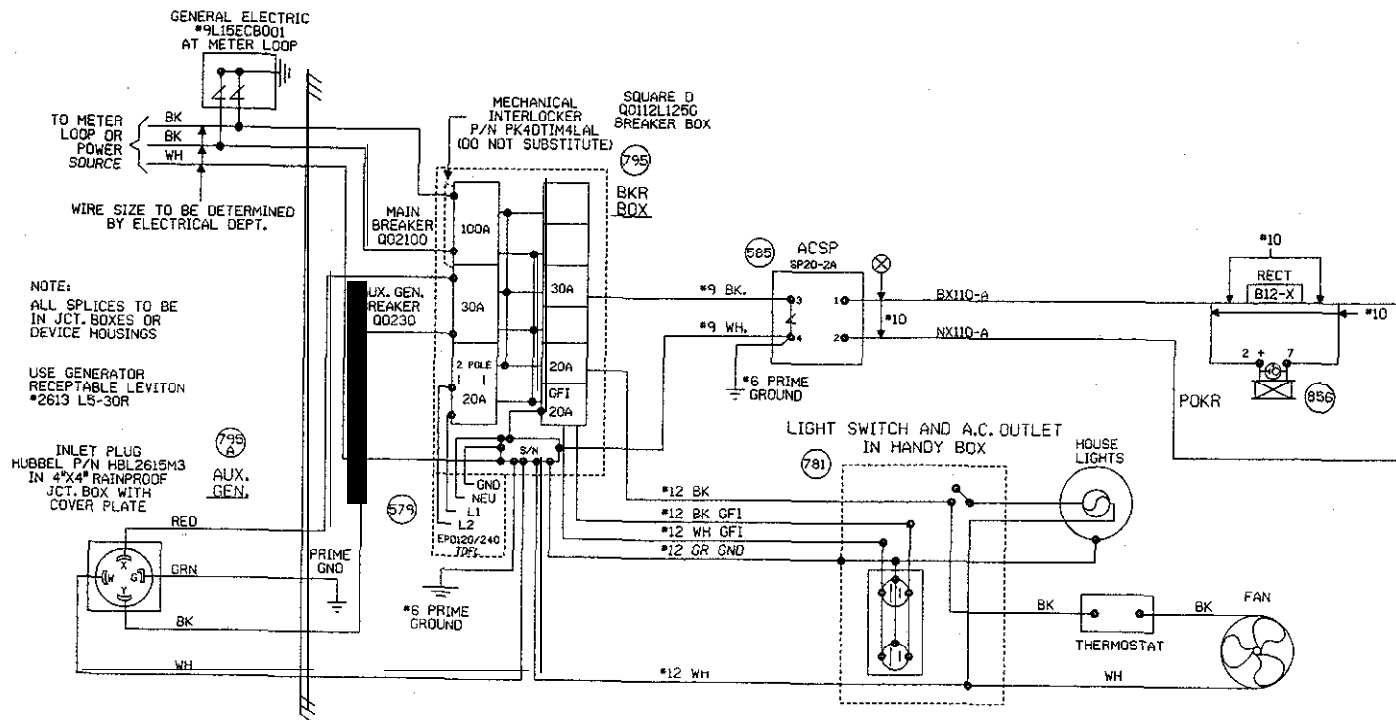
NEW SHEET

GARDNER, ILLINOIS
REMOTE GCP LOCATION
M.P. 68.28
JOLIET SUBDIVISION
PROJ. #

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
CONNECTS TO DRAWING 68.27

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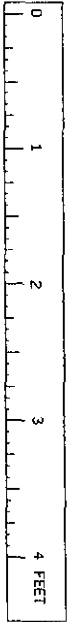
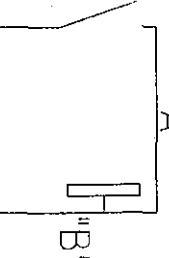
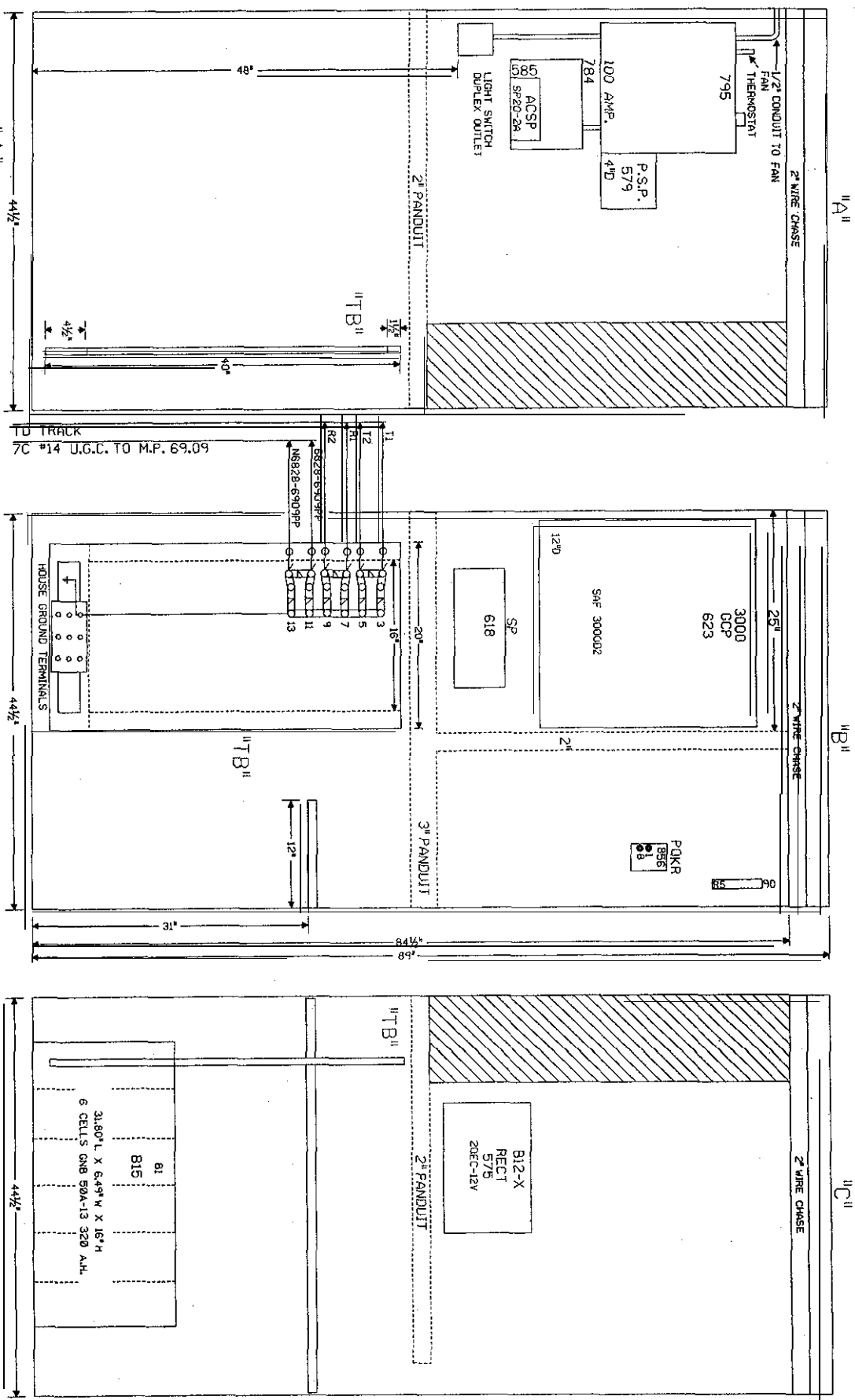


**NEW
SHEET**

GARDNER, ILLINOIS
REMOTE OCP LOCATION
M.P. 68.28
JOLIET SUBDIVISION
PROJ.

5-1-01 UPGRADE CROSSING PROTECTION FOR THE HIGH SPEED RAIL PROJ. FROM MAZONIA TO SPRINGFIELD, ILL. APE 004438L J.J.F. WITT/JNM	MODIFICATION LEVEL			DES: WITT,IND.	UNION PACIFIC RAILROAD JOLIET, ILLINOIS TO BLOOMINGTON, ILLINOIS C.T.C. CIRCUITS OFFICE OF CHIEF ENGR	DATE 5-1-01
	Q.A. LAST LEVEL CHK'D.	DD		DIG: WITT,IND.		SHEET 2
	LAST LEVEL MOD. THIS TYP.	DB		CHK: J.J.F.		DWG 68.28
	LAST LEVEL BY DESIGNER.	DD		A.P.E. 004438L		RTE-CSL
	CHANGED FROM TYP.2 Y/N	N		10- CSL6828.2X		OMAHA NEBR.
(REV. 2-7-01) (REMOTE.2)						

(REV. 2-7-01) (REMOTE.2)



NOTE: ALL DIMENSIONS SHOWN ARE APPROXIMATE.

SCALE: 1/8" = 1 FOOT

5-1-01 JEFFERSON COUNTY, ILL. JOLIET, ILL. TO BLOOMINGTON, ILL. C.T.C. CIRCUITS		DESIGNED BY R.E. WITTING		DATE 5-1-01	
CHECKED BY J.A. JONES		DRAWN BY J.A. JONES		SHEET 4	
APPROVED BY C.E. CROOK		PROJECT NO. 68-28		DATE 6-8-28	
REVISIONS 1. CHANGED FROM TYP. 1/2" V.N.		SIGNAL DESIGN		OFFICE OF CHIEF ENGINEER	
ID: 68-28-4X		DIVISION JOLIET SUBDIVISION		PROJECT RTE-CSL	